ASSIGNMENT BOOKLET

0702 Mathematics 7
Module 3

FOR STUDENT USE ONLY	
Date Module Submitted _____ Time Spent on Module _____	(If label is missing or incorrect) File Number _____ Module Number_____

FOR A.D.L.C. USE ONLY

Assigned Teacher: _____

Module Grading: _____

Graded by: _____

Date Module Received:

_____

Module Assignment Recorded_____

Student's Questions and Comments

Apply Module Label Here

Name

Address

Postal Code

Please verify that preprinted label is for correct course and module.

Teacher's Comments:

_____
Teacher

St. Serv. 13-91

ALBERTA DISTANCE LEARNING CENTRE

MAILING INSTRUCTIONS FOR CORRESPONDENCE ASSIGNMENT BOOKLET

1. BEFORE MAILING YOUR ASSIGNMENT BOOKLET PLEASE SEE THAT:

(1) All assignments are completed. If not, explain why.
(2) Your work has been re-read to ensure accuracy in spelling and details.
(3) The booklet cover is filled out and the correct module label is attached.

2. POSTAGE REGULATIONS

Do **not** enclose letters with Assignments Booklets.

Send all letters in a separate envelope.

3. POSTAGE RATES

First Class

Take your Assignment Booklet to the Post Office and have it weighed. Attach sufficient postage and a green first-class sticker to the front of the envelope, and seal the envelope. Correspondence Assignment Booklets will travel faster if first-class postage is used.

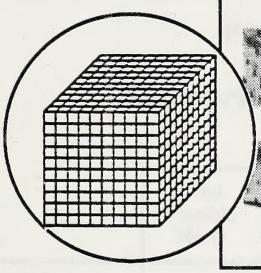
Try to mail each Assignment Booklet as soon as it has been completed.

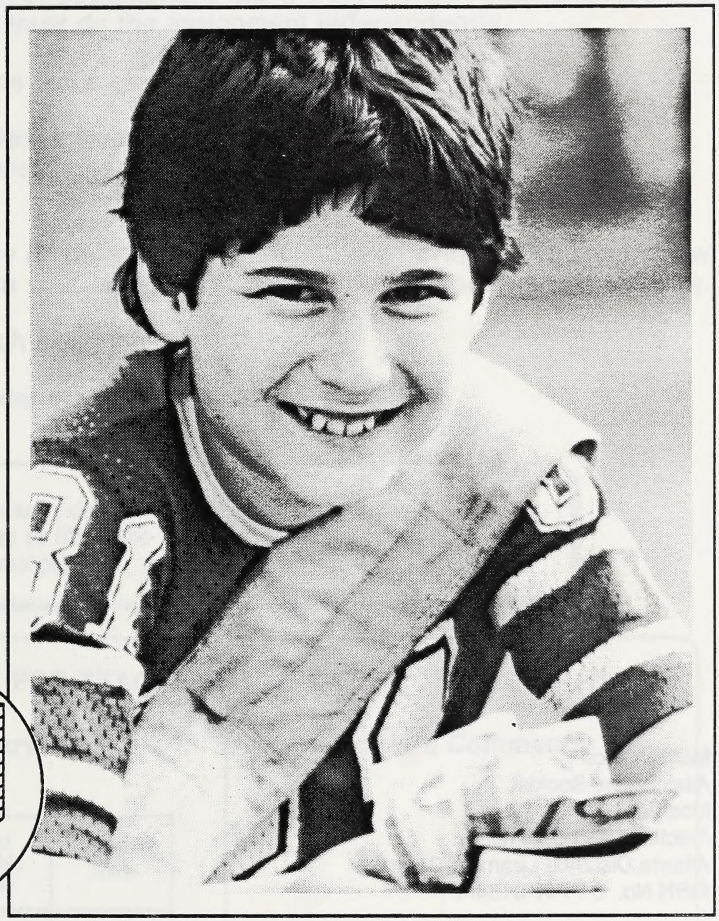
When you register for correspondence courses, you are expected to send Assignment Booklets for correction regularly. Do not send more than one Assignment Booklet in one subject at the same time.

St. Serv. 8-91

FRACTIONS and DECIMALS MODULE 3

ASSIGNMENT BOOKLET





MATHEMATICS 7

Distance Learning

Alberta EDUCATION

Mathematics 7
Assignment Booklet
Module 3
Fractions and Decimals
Alberta Distance Learning Centre
ISBN No. 0-7741-0164-4

Cover Photo: WESTFILE INC.

Your mark on this module will be determined by how well you do on this assignment booklet.

This assignment booklet may be completed with the use of a calculator and resource materials. However, you must do the assignment **independently.**

The assignment has three parts:

Part 1 — Multiple-Choice Questions
Part 2 — Short-Answer Questions
Part 3 — Problems

Work slowly and carefully on the assignment. If you are having difficulties, review the appropriate section in your Module Booklet, but do not get help from anyone.

Be sure to proofread each assignment carefully.

Do not hand in this booklet until all questions are answered.

Faxing?

If you are using a facsimile machine to submit your work, be sure to fill in the information at the bottom of every response page.

FOR TEACHER'S USE ONLY

Summary

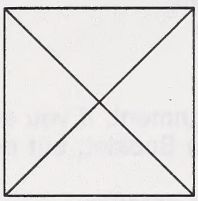
	Total Possible Marks	Your Mark
Part 1	30	
Part 2	65	
Part 3	30	
	125	

Teacher's Comments

30

Part 1: Multiple Choice

Each of the following questions has four suggested answers, one of which is better than the others. Select the best answer, and indicate your choice by writing the letter in the blank on the response page at the right.

1. 

Which fraction is shown by the shaded part of the above figure?

a. $\frac{3}{4}$

b. $\frac{2}{3}$

c. $\frac{3}{2}$

d. $\frac{4}{3}$

Part 1 Response Page

1. _____

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 1 (continued)

2. $\frac{1}{3}, \frac{2}{6}, \frac{3}{9}, \frac{5}{15}, \frac{9}{21}, \frac{10}{30}$

Which fraction is **not** equivalent to the others in the above series?

a. $\frac{2}{6}$

b. $\frac{3}{9}$

c. $\frac{9}{21}$

d. $\frac{10}{30}$

3. Which number expresses $\frac{19}{6}$ as a mixed number?

a. $3\frac{1}{6}$

b. $6\frac{1}{3}$

c. $1\frac{3}{6}$

d. 3

Part 1 Response Page (continued)

2. _____

3. _____

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 1 (continued)

4. Which fraction expresses $\frac{10}{25}$ in lowest terms?

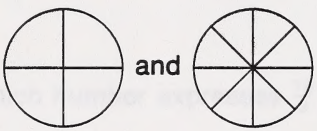
   a. $\frac{1}{5}$

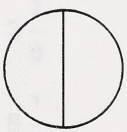
   b. $\frac{5}{2}$

   c. $\frac{2}{5}$

   d. $\frac{2}{10}$

5. Which diagram shows the answer to the following.



   a. 

   b. 

   c. 

   d. 

Part 1 Response Page (continued)

4. _____

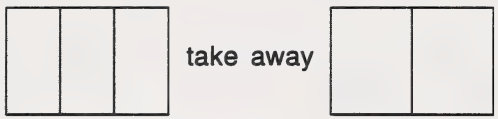
5. _____

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 1 (continued)

6. Which number sentence describes the following.



a. $\frac{2}{3} - \frac{1}{2} = \frac{1}{3}$

b. $\frac{2}{3} - \frac{1}{2} = \frac{1}{2}$

c. $\frac{2}{3} - \frac{1}{2} = \frac{1}{5}$

d. $\frac{2}{3} - \frac{1}{2} = \frac{1}{6}$

7. Which statement is true?

a. $\frac{7}{7} > \frac{6}{8}$

b. $\frac{2}{3} < \frac{1}{3}$

c. $\frac{2}{4} = \frac{3}{12}$

d. $1\frac{1}{2} < \frac{2}{3}$

Part 1 Response Page (continued)

6. _____

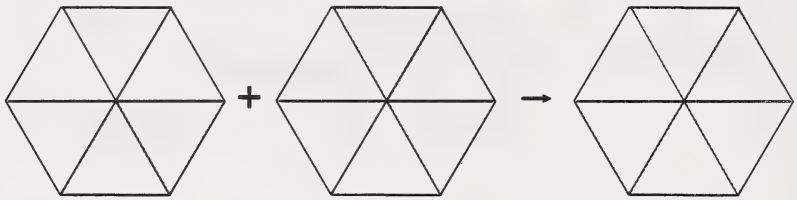
7. _____

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 1 (continued)

8. Which number sentence describes the following.



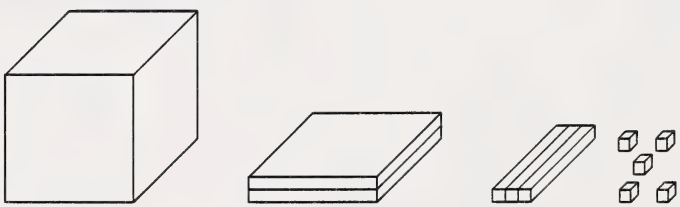
a. $\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$

b. $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$

c. $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

d. $\frac{1}{4} + \frac{3}{6} = \frac{5}{6}$

9. Which number is shown by the following group of base 10 blocks?



a. 0.1235
b. 1.325
c. 0.5321
d. 1.235

Part 1 Response Page (continued)

8. _____

9. _____

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 1 (continued)

10. Which numeral stands for the number nine and six hundredths?

    a. 0.6
    b. 9.06
    c. 91.6
    d. 96.01

11. Which expanded notation stands for the number 0.052?

    a. $(5 \times 0.01) + (2 \times 0.001)$
    b. $(5 \times 0.001) + (2 \times 0.0001)$
    c. $(5 \times 0.1) + (2 \times 0.01)$
    d. $(5 \times 1) + (2 \times 0.1)$

12. Which number is **not** larger than 2.61?

    a. 2.65
    b. 2.71
    c. 6.12
    d. 2.6

13. If $245 \times 6 = 1470$, then $24.5 \times 6 =$

    a. 14.70
    b. 147
    c. 1.47
    d. 14700

Part 1 Response Page (continued)

10. _____

11. _____

12. _____

13. _____

Name of Student _____ Student I.D.# _____

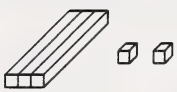
Name of School _____ Date _____

Part 1 (continued)

14. Using base 10 blocks, find the correct difference for the expression below.

a. 

b. 

c. 

d. 

15. If 1356 ÷ 8 = 169.5, which keys would you press on a calculator to find the remainder for 1356 ÷ 8?

a. 0 . 5 × 1 3 5 6

b. 0 . 5 × 8

c. 0 . 5 × 1 0

d. 0 . 5 × 1 6 9

Part 1 Response Page (continued)

14. _____

15. _____

Total for Part 1 = _____ (Maximum possible: 30 marks)

Name of Student _____ Student I.D.# _____

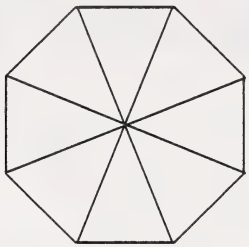
Name of School _____ Date _____

65

Part 2: Short Answers

Answer the following questions on the response page at the right.

2 1. Shade in this figure to show the fraction $\frac{5}{8}$.



3 2. Write 3 equivalent fractions for $\frac{3}{2}$.

2 3. Express $3\frac{3}{4}$ as a fraction.

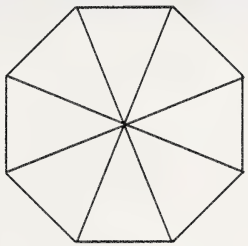
2 4. Express $\frac{51}{10}$ as a mixed number.

3 5. Arrange from least to greatest.

$$\frac{6}{6}, 4\frac{2}{3}, \frac{3}{7}, \frac{21}{5}, \frac{1}{2}, \frac{4}{5}$$

Part 2 Response Page

1.



2.

3.

4.

5.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 2 (Continued)

8

6. Use pattern blocks to model the following and complete the number sentences. Write your answer in simplest form.

   a. $\frac{1}{12} + \frac{5}{12}$

   b. $\frac{3}{4} - \frac{1}{2}$

   c. $\frac{1}{2} + \frac{4}{6}$

   d. $\frac{3}{4} - \frac{7}{12}$

10

7. Use pattern blocks to model the following and complete number sentences. Write your answer in simplest form.

   a. $\frac{1}{2} \times \frac{4}{6}$

   b. $\frac{2}{3} \times \frac{1}{4}$

   c. $\frac{1}{2} \div \frac{1}{6}$

   d. $\frac{1}{2} \div \frac{3}{4}$

   e. $\frac{1}{2} \div \frac{5}{12}$

Part 2 Response Page (continued)

6. a.

b.

c.

d.

7. a.

b.

c.

d.

e.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 2 (Continued)

2 8. Express as a decimal.

a. $\frac{3}{10}$

b. $1\frac{1}{4}$

2 9. Express as a fraction in lowest terms.

a. 0.13
b. 0.8

2 10. Write in standard form.

$(3 \times 0.1) + (7 \times 0.001) + (5 \times 0.0001)$

2 11. Arrange the numbers in order from least to greatest.

7.12, 7.1, 7.128, 7.27

3 12. Round the number 16.5094 to the following place values.

a. nearest one
b. nearest tenth
c. nearest thousandth

Part 2 Response Page (continued)

8. a.

   b.

9. a.

   b.

10.

11.

12. a.

    b.

    c.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 2 (Continued)

12

13. Use base 10 blocks to find the answers. Draw the blocks and write a number sentence.

    a. 0.6×0.3

    b. $1.35 + 0.08$

Part 2 Response Page (continued)

13. a.

b.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 2 (Continued)

c. $2 \div 0.5$

Part 2 Response Page (continued)

c.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 2 (Continued)

12

14. Write an estimate first. Then find the exact answer. Do not use calculators. Show your work.

    a. 17.6 + 5.083 + 0.77

    b. $48.10 − $17.55

    c. 29.4 × 3.7

    d. 19.1 ÷ 2.8

Part 2 Response Page (continued)

14. a.

b.

c.

d.

Total for Part 2 = _____ (Maximum possible: 65 marks)

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

30

Part 3: Problems

When answering the following questions, be sure to show how you solved the problem and give statement answers. Use the response page at the right.

3 1. Carson spends $\frac{3}{4}$ of an hour doing homework each school day. If there were 20 school days in January, how much time did Carson spend on homework?

3 2. Hussein had opened three cartons of milk. One carton was $\frac{2}{3}$ full. Another was carton was $\frac{1}{2}$ full. The final carton was $\frac{3}{4}$ full. How much milk does Hussein have altogether?

3 3. Kirsten took $3\frac{3}{4}$ hours to finish a marathon. Francine took $2\frac{1}{3}$ hours. How much longer did Kirsten take to finish?

3 4. Leonard has 4 crates of oranges. He is repackaging them into bags. Each bag holds $\frac{1}{5}$ of a crate. How many bags of oranges will Leonard have?

Part 3 Response Page

1.

2.

3.

4.

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Part 3 (continued)

6 5. In a class of 24 students, $\frac{3}{4}$ have blond hair. If $\frac{2}{3}$ of the blond-haired students have blue eyes, how many are blond-haired and blue-eyed students.

3 6. Fiona bought $25 worth of unleaded gasoline at a cost of 38.4¢ per litre. Leaded gasoline costs 36.5¢ per litre. How many litres of gas did Fiona buy?

3 7. Comic books cost ¢1.98 each. If Prakash bought 5 comic books, what was the total cost of the comics?

3 8. The first four finishers in a 400m race had times of 45.91, 47.36, 46.62, and 45.55 seconds. How much faster was the first-place finisher than the fourth-place finisher?

3 9. Jurgen's scores on 3 rounds of "Celebrity Decimals" were 175.5, 188 and 220.65. What was his total score?

Part 3 Response Page (continued)

5.

6.

7.

8.

9.

Total for Part 3 = _____ (Maximum possible: 30 marks)

Name of Student _____ Student I.D.# _____

Name of School _____ Date _____

Alberta Distance Learning Centre Declarations

The Student's Declaration is to be filled in by a student registered at the Alberta Distance Learning Centre. If the student is under 16, the Learning Facilitator's Declaration is to be filled in by the learning facilitator. Failure to complete this page may invalidate the assignment results.

Student's Declaration

- I have followed the instructions outlined in the module booklet.
- I have done the activities to prepare myself for the assignments in this assignment booklet.
- I have done these assignments in the assignment booklet by myself.

_____

Student's Signature

Learning Facilitator's Declaration

I hereby certify that I have supervised the learning activities done by _____.

(state student's name)

I also certify that to the best of my knowledge these assignments in this assignment booklet were done independently by this student.

_____

Learning Facilitator's Signature

If either the learning facilitator or the student have any comments or observations regarding this module, write them below.

_____

_____

_____

_____

_____

_____

_____

Name of Student _____ Student I.D. # _____

Course Name _____ Date _____

Mathematics 7

9MA07W13

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